

Title (en)

Piezoelectric vibrating pieces and piezoelectric devices

Title (de)

Piezoelektrische Vibrationsteile und piezoelektrische Vorrichtungen

Title (fr)

Pièces vibrantes piézoélectriques et dispositifs piézoélectriques

Publication

**EP 2012427 A3 20090916 (EN)**

Application

**EP 08159459 A 20080701**

Priority

JP 2007173863 A 20070702

Abstract (en)

[origin: EP2012427A2] The piezoelectric vibrating piece (20) comprises a base portion (29) having an adhesive area on a first surface of electrically conductive adhesive 31 for mounting, a pair of vibrating arms (21) extending in a first direction from one edge of the base portion, base electrodes (23a, 25a) arranged in the base portion, an exciting electrode (23c, 25c) extending in a first direction and connecting the base electrode to excite a pair of vibrating arms. The area where the base electrodes (23a, 25a) contact the electrically conductive adhesive (31) is smaller than the adhesive area (33).

IPC 8 full level

**H03H 9/21** (2006.01)

CPC (source: EP US)

**H03H 9/21** (2013.01 - EP US)

Citation (search report)

- [XA] EP 1528673 A1 20050504 - SEIKO EPSON CORP [JP]
- [XA] JP 2004120249 A 20040415 - SEIKO EPSON CORP
- [A] EP 1650867 A1 20060426 - SEIKO EPSON CORP [JP]
- [DA] JP 2004266871 A 20040924 - SEIKO EPSON CORP

Cited by

ES2323844A1; CN102438506A; US10376204B2; WO2010112647A3

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

**EP 2012427 A2 20090107; EP 2012427 A3 20090916**; CN 101340179 A 20090107; CN 101340179 B 20130612; JP 2009016989 A 20090122; JP 4990047 B2 20120801; US 2009009037 A1 20090108; US 7902729 B2 20110308

DOCDB simple family (application)

**EP 08159459 A 20080701**; CN 200810126558 A 20080701; JP 2007173863 A 20070702; US 16612508 A 20080701